	<b>Ultra 2 Model 1200</b>	<b>Ultra 2 Model 1300</b>	<b>Ultra 2 Model 2170</b>	<b>Ultra 2 Model 2200</b>	<b>Ultra 2 Model 2300</b>
<b>Packaging</b>	Desktop	Desktop	Desktop	Desktop	Desktop
<b>Performance</b> SPECint95 SPECfp95 SPECbase_int95 SPECbase_fp95 AIM 3 LADDIS	Model 1200 7.72 11.40 6.90 11.10 N/A 2565	Model 1300 12.10 15.50 10.40 14.50 N/A N/A	Model 2170 6.39 11.80 N/A 10.70 N/A 3536	Model 2200 7.72 14.70 6.90 13.30 N/A 4303	Model 2300 12.30 20.20 10.50 17.70 N/A N/A
<b>Performance</b> Architecture Clock rate Cache on-chip Cache external No. of Processors	UltraSPARC-I 200MHz 16KB I-cache, 16KB D-cache 1MB 1	UltraSPARC-II 300MHz 16KB I-cache, 16KB D-cache 2MB 1	UltraSPARC-I 167MHz 16KB I-cache, 16KB D-cache 512KB per CPU 2	UltraSPARC-I 200MHz 16KB I-cache, 16KB D-cache 1MB 2	UltraSPARC-II 300MHz 16KB I-cache, 16KB D-cache 1MB 2
<b>System Memory</b> Standard Maximum Memory type Bandwidth Tot SIMM memory slots SIMM size	128MB 2GB (w/ 128MB SIMMs) ECC 288 bits 16 16, 32, 64, 128MB (must be in groups of 4)	128MB 2GB (w/ 128MB SIMMs) ECC 288 bits 16 16, 32, 64, 128MB (must be in groups of 4)	128MB 2GB (w/ 128MB SIMMs) ECC 288 bits 16 16, 32, 64, 128MB (must be in groups of 4)	256MB 2GB (w/ 128MB SIMMs) ECC 288 bits 16 16, 32, 64, 128MB (must be in groups of 4)	256MB 2GB (w/ 128MB SIMMs) ECC 288 bits 16 16, 32, 64, 128MB (must be in groups of 4)
<b>Disk Storage</b> SCSI bandwidth Standard Maximum internal Maximum external	20MB/sec. (16-bit fast/wide) 4.2GB 8.4GB 273GB	20MB/sec. (16-bit fast/wide) 4.2GB 8.4GB 273GB	20MB/sec. (16-bit fast/wide) 2.1GB 8.4GB 273GB	20MB/sec. (16-bit fast/wide) 4.2GB 8.4GB 273GB	20MB/sec. (16-bit fast/wide) 4.2GB 8.4GB 273GB
<b>I/O Architecture</b> SBus slots Graphics (UPA Slots) Serial ports Parallel ports Audio Speaker	4 (32/64-bit, 25MHz) 1 (83/100MHz) 2 1 16-bit Internal	4 (32/64-bit, 25MHz) 1 (83/100MHz) 2 1 16-bit Internal	4 (32/64-bit, 25MHz) 1 (83/100MHz) 2 1 16-bit Internal	4 (32/64-bit, 25MHz) 1 (83/100MHz) 2 1 16-bit Internal	4 (32/64-bit, 25MHz) 1 (83/100MHz) 2 1 16-bit Internal
<b>Network Ports</b> AUI Ethernet Twisted-pair Ethernet ISDN BRI	Yes (requires MII adapter) Yes (10/100 Mbps) Optional	Yes (requires MII adapter) Yes (10/100 Mbps) Optional	Yes (requires MII adapter) Yes (10/100 Mbps) Optional	Yes (requires MII adapter) Yes (10/100 Mbps) Optional	Yes (requires MII adapter) Yes (10/100 Mbps) Optional
<b>Supported Graphics Options</b>	Creator, Creator3D	Creator, Creator3D	Creator, Creator3D	Creator, Creator3D	Creator, Creator3D
<b>Solaris License</b>	Solaris 2.5.1 or later	Solaris 2.5.1 or later	Solaris 2.5.1 or later	Solaris 2.5.1 or later	Solaris 2.5.1 or later

## Ultra 2 - Model 1200

**Model 1200: One 200 MHz UltraSPARC-I, 1MB E-cache**

Part Number	Description	List Price	Discount Category
<b>CREATOR GRAPHICS SYSTEM</b>			
A14-UCB1-1E-128AC	20" color monitor, Creator, 128MB, 4.2GB 7200 RPM internal Fast/Wide SCSI-2 disk	\$20,495	A
<b>CREATOR3D GRAPHICS SYSTEM</b>			
A14-UCB1-1F-128AC	20" color monitor, Creator3D, 128MB, 4.2GB 7200 RPM internal Fast/Wide SCSI-2 disk	\$21,495	A

### Upgrades:

From	Part Number and Description	List Price	Discount Category
<b>CREATOR GRAPHICS UPGRADES</b>			
Any SPARCstation	<b>UFS-UCB1-1E-128AC</b> Full system upgrade to Ultra 2 Model 1200 with 20" color monitor, Creator graphics, 128MB, 4.2GB fast internal disk	\$18,350	A*
SPARCstation 10	<b>US10UCB1-9E-128AC</b> Chassis upgrade to Ultra 2 Model 1200 with Creator graphics, 128MB, 4.2GB fast internal disk	\$14,650	A*
SPARCstation 4 or 5	<b>US5-UCB1-9E-128NN</b> Chassis upgrade to Ultra 2 Model 1200 with Creator graphics, 128MB.	\$13,800	A*
SPARCstation 20	<b>US20UCB1-9E-000NN</b> Chassis upgrade to Ultra 2 Model 1200 with Creator graphics.	\$11,800	A*
Ultra 1 - 140 or 170	<b>U11-UCB1-9E-000NN</b> Chassis upgrade to Ultra 2 Model 1200 with Creator graphics.	\$10,300	A*
<b>CREATOR3D GRAPHICS UPGRADES</b>			
Any SPARCstation	<b>UFS-UCB1-1F-128AC</b> Full system upgrade to Ultra 2 Model 1200 with 20" color monitor, Creator3D graphics, 128MB, 4.2GB fast internal disk.	\$19,350	A*
SPARCstation 10	<b>US10UCB1-9F-128AC</b> Chassis upgrade to Ultra 2 Model 1200 with Creator3D graphics, 128MB, 4.2GB fast internal disk.	\$15,650	A*
SPARCstation 20	<b>US20UCB1-9F-000NN</b> Chassis upgrade to Ultra 2 Model 1200 with Creator3D graphics.	\$12,800	A*
Ultra 1 - 140 or 170	<b>U11-UCB1-9F-000NN</b> Chassis upgrade to Ultra 2 Model 1200 with Creator3D graphics.	\$11,300	A*
<b>CHASSIS / MODULE UPGRADE</b>			
SPARCstation 20ZX, Ultra 1 /170E, Ultra Enterprise 1	<b>U12-UCB1-9N-000NN</b> Chassis upgrade to Ultra 2 Model 1200 or Ultra Enterprise 2 Model 1200, no memory, no disk	\$8,300	A*
Ultra 1 Model 1170	<b>UG-M1170-M1200</b> Module upgrade to Ultra 2 Model 1200.	\$3,995	A*

### NOTES:

- All Ultra 2 Model 1200 configurations require Solaris 2.5.1 or later Solaris 2.x release.

- The Ultra 2 systems are equipped with FastEthernet (100BaseT)/10BaseT via twisted pair. If connecting to other media with an external transceiver, it will need to connect to the MII connector.

- The Ultra 2 systems have a wide SCSI connector on the back panel (68-pin). If narrow SCSI devices are to be connected, a conversion cable (50-68 pin) is needed (X903A or X904A). See Options section.

- Order a Solaris Internet Access PlusPack (IAPP-2.0-P) at no charge with initial workstation order.

- All systems orders that include a monitor must also include a Country Kit; refer to the "Country Kits" section in the End User Price Book.

- Sun Ultra 2 systems require 4 identical SIMMs in 4 memory banks.

- Type 4 keyboard is not supported.

- Order additional memory, internal or external storage options as separate line items.

\* Maximum discount may apply.

## Ultra 2 - Model 1300

**Model 1300: One 300 MHz UltraSPARC-II, 2MB E-cache**

Part Number	Description	List Price	Discount Category
<b>CREATOR SYSTEM</b>			
A14-UEC1-1E-128AC	20" color monitor, Creator, 128MB, 4.2GB 7200 RPM internal Fast/Wide SCSI-2 disk	\$26,495	A
<b>CREATOR3D SYSTEM</b>			
A14-UEC1-1F-128AC	20" color monitor, Creator 3D, 128MB, 4.2GB 7200 RPM internal Fast/Wide SCSI-2 disk	\$27,495	A

### Upgrades:

From	Part Number and Description	List Price	Discount Category
<b>CREATOR UPGRADES</b>			
Any SPARCstation	<b>UGFS-UEC1-1E-128AC</b> Full system upgrade to Ultra 2 Model 1300 with 20" color monitor, Creator, 128MB, 4.2GB fast internal disk.	\$23,995	A*
SPARCstation 10	<b>UG10-UEC1-9E-128AC</b> Chassis upgrade to Ultra 2 Model 1300 with 128MB, 4.2GB fast internal disk, and Creator graphics.	\$20,650	A*
SPARCstation 20	<b>UG20-UEC1-9E-000NN</b> Chassis upgrade to Ultra 2 Model 1300 with Creator graphics, no memory, no disk.	\$17,800	A*
Ultra 1 - 140 or 170	<b>UA11-UEC1-9E-000NN</b> Chassis upgrade to Ultra 2 Model 1300 with Creator graphics, no memory, no disk.	\$16,300	A*
<b>CREATOR3D UPGRADES</b>			
Any SPARCstation	<b>UGFS-UEC1-1F-128AC</b> Full system upgrade to Ultra 2 Model 1300 with 20" color monitor, Creator3D graphics, 128MB, 4.2GB fast internal disk.	\$24,995	A*
SPARCstation 10	<b>UG10-UEC1-9F-128AC</b> Chassis upgrade to Ultra 2 Model 1300 with Creator3D graphics, 128MB, 4.2GB fast internal disk.	\$21,650	A*
SPARCstation 20	<b>UG20-UEC1-9F-000NN</b> Chassis upgrade to Ultra 2 Model 1300 with Creator3D graphics, no memory, no disk.	\$18,800	A*
<b>CHASSIS / MODULE UPGRADES</b>			
SPARCstation 20ZX, Ultra 1 - 170E, Ultra Enterprise 1	<b>UA12-UEC1-9N-000NN</b> Chassis upgrade to Ultra 2 Model 1300 or Ultra Enterprise 2 Model 1300, no graphics, no memory, no disk.	\$14,300	A*
Ultra 1 Model 1170 1200 module	<b>UG-M1XXX-M1300</b> Module upgrade to Ultra 2 Model 1300. CPU only.	\$6,995	A*

**NOTES:** All Ultra 2 Model 1300 configurations require Solaris 2.5.1 or later Solaris 2.x release.

- The Ultra 2 systems are equipped with FastEthernet (100BaseT)/10BaseT via twisted pair. If connecting to other media with an external transceiver, it will need to connect to the MII connector.

- Order a Solaris Internet Access PlusPack (IAPP-2.0-P) at no charge with initial workstation order.

- The Ultra 2 systems have a wide SCSI connector on the back panel (68-pin). If narrow SCSI devices are to be connected, a conversion cable (50-68 pin) is needed (X903A or X904A). See Options section.

- All systems orders that include a monitor must also include a Country Kit; refer to the "Country Kits" section in the End User Price Book.

- Sun Ultra 2 systems require 4 identical SIMMs in 4 memory banks.

- Type 4 keyboard is not supported.

- Order additional memory, internal or external storage options as separate line items.

\* Maximum discount may apply.

## Ultra 2 - Model 2170

*Model 2170: Two 167 MHz UltraSPARC-I, 512KB E-cache per CPU*

Part Number	Description	List Price	Discount Category
<b>CREATOR</b>			
A14-UBA2-1E-128AB	20" color monitor, Creator, 128MB, 2.1GB 7200 RPM internal fast/wide SCSI-2 disk	\$21,995	A
<b>CREATOR3D</b>			
A14-UBA2-1F-128AB	20" color monitor, Creator3D, 128MB, 2.1GB 7200 RPM internal fast/wide SCSI-2 disks	\$22,995	A

**NOTES:** All Ultra 2 Model 2170 configurations and require Solaris 2.5.1 or later Solaris 2.x release.

- The Ultra 2 systems are equipped with FastEthernet (100BaseT)/10BaseT via twisted pair. If connecting to other media with an external transceiver, it will need to connect to the MII connector.

- The Ultra 2 systems have a wide SCSI connector on the back panel (68-pin). If narrow SCSI devices are to be connected, a conversion cable (50-68 pin) is needed (X903A or X904A). See Options section.

- Order a Solaris Internet Access PlusPack (IAPP-2.0-P) at no charge with initial workstation order.

- All systems orders that include a monitor must also include a Country Kit; refer to the "Country Kits" section in the End User Price Book.

- Sun Ultra 2 systems require 4 identical SIMMs in 4 memory banks.

- Type 4 keyboard is not supported.

- Order additional memory, internal or external storage options as separate line items.

\* Maximum discount may apply.

### Upgrades:

From	Part Number and Description	List Price	Discount Category
<b>CREATOR UPGRADES</b>			
SPARCstation 10	<b>US10UBA2-9E-128AB</b> Chassis upgrade to Ultra 2 Model 2170 with Creator graphics, 128MB, 2.1GB fast internal disk.	\$16,150	A*
SPARCstation 20	<b>US20UBA2-9E-000NN</b> Chassis upgrade to Ultra 2 Model 2170 with Creator graphics.	\$15,800	A*
Ultra 1 - 140 or 170	<b>U11-UBA2-9E-000NN</b> Chassis upgrade to Ultra 2 Model 2170 with Creator graphics.	\$14,800	A*
<b>CREATOR3D UPGRADES</b>			
SPARCstation 10	<b>UG10-14UBA29F128AB</b> Chassis upgrade to Ultra 2 Model 2170 with Creator3D graphics, 128MB, 2.1GB fast internal disk.	\$17,150	A*
SPARCstation 20	<b>US20UBA2-9F-000NN</b> Chassis upgrade to Ultra 2 Model 2170 with Creator3D graphics.	\$16,800	A*
<b>CHASSIS UPGRADE</b>			
SPARCstation 20ZX, Ultra 1 - 170E, Ultra Enterprise 1	<b>U12-UBA2-9N-000NN</b> Chassis upgrade to Ultra 2 Model 2170 or Ultra Enterprise 2 Model 2170, no memory, no disk.	\$9,995	A*

## Ultra 2 - Model 2200

**Model 2200: Two 200 MHz UltraSPARC-I, 1MB E-cache per CPU**

Part Number	Description	List Price	Discount Category
<b>CREATOR</b>			
A14-UCB2-1E-256AC	20" color monitor, Creator, 256MB (4 x 64MB SIMMs), 4.2GB 7200 RPM internal Fast/Wide SCSI-2 disk.	\$27,995	A
<b>CREATOR3D</b>			
A14-UCB2-1F-256AC	20" color monitor, Creator 3D, 256MB (4 x 64MB SIMMs), 4.2GB 7200 RPM internal Fast/Wide SCSI-2 disk.	\$28,995	A
A14-UCB2-1F-001AC	20" color monitor, Creator 3D, 1GB (8 x 128MB SIMMs), 4.2GB 7200 RPM internal Fast/Wide SCSI-2 disk.	\$48,995	A

### Upgrades:

From	Part Number and Description	List Price	Discount Category
<b>CREATOR UPGRADES</b>			
SPARCstation 10	<b>US10UCB2-9E-256AC</b> Chassis upgrade to Ultra 2 Model 2200 with Creator graphics, 256MB, 4.2GB fast internal disk	\$22,150	A*
SPARCstation 20	<b>US20UCB2-9E-000NN</b> Chassis upgrade to Ultra 2 Model 2200 with Creator graphics	\$19,300	A*
Ultra 1 - 140 or 170	<b>U11-UCB2-9E-000NN</b> Chassis upgrade to Ultra 2 Model 2200 with Creator graphics	\$17,800	A*
<b>CREATOR3D UPGRADES</b>			
SPARCstation 10	<b>US10UCB2-9F-256AC</b> Chassis upgrade to Ultra 2 Model 2200 with Creator3D graphics, 256MB, 4.2GB fast internal disk.	\$23,150	A*
SPARCstation 20	<b>US20UCB2-9F-000NN</b> Chassis upgrade to Ultra 2 Model 2200 with Creator3D graphics	\$20,300	A*
Ultra 1 - 140 or 170	<b>U11-UCB2-9F-000NN</b> Chassis upgrade to Ultra 2 Model 2200 with Creator3D graphics	\$18,800	A*
<b>CHASSIS UPGRADE</b>			
SPARCstation 20ZX, Ultra 1 - 170E, Ultra Enterprise 1	<b>U12-UCB2-9N-000NN</b> Chassis upgrade to Ultra 2 Model 2200 or Ultra Enterprise 2 Model 2200, no memory, no disk.	\$15,800	A*

**NOTES:** All Ultra 2 Model 2200 configurations require Solaris 2.5.1 or later Solaris 2.x release.

- The Ultra 2 systems are equipped with FastEthernet (100BaseT)/10BaseT via twisted pair. If connecting to other media with an external transceiver, it will need to connect to the MII connector.

- The Ultra 2 systems have a wide SCSI connector on the back panel (68-pin). If narrow SCSI devices are to be connected, a conversion cable (50-68 pin) is needed (X903A or X904A). See Options section.

- Order a Solaris Internet Access PlusPack (IAPP-2.0-P) at no charge with initial workstation order.

- All systems orders that include a monitor must also include a Country Kit; refer to the "Country Kits" section in the End User Price Book.

- Sun Ultra 2 systems require 4 identical SIMMs in 4 memory banks.

- Type 4 keyboard is not supported.

- Order additional memory, internal or external storage options as separate line items.

\* Maximum discount may apply.

## Ultra 2 - Model 2300

**Model 2300: Two 300 MHz UltraSPARC-II, 2MB E-cache per CPU**

Part Number	Description	List Price	Discount Category
<b>CREATOR</b>			
A14-UEC2-1E-256AC	20" color monitor, Creator, 256MB (4 x 64MB SIMMs), 4.2GB 7200 RPM internal Fast/Wide SCSI-2 disk.	\$38,495	A
<b>CREATOR3D</b>			
A14-UEC2-1F-256AC	20" color monitor, Creator 3D, 256MB (4 x 64MB SIMMs), 4.2GB 7200 RPM internal Fast/Wide SCSI-2 disk.	\$39,495	A
A14-UEC2-1F-001AC	20" color monitor, Creator 3D, 1GB (8 x 128MB SIMMs), 4.2GB 7200 RPM internal Fast/Wide SCSI-2 disk.	\$59,495	A

### Upgrades:

From	Part Number and Description	List Price	Discount Category
<b>CREATOR UPGRADES</b>			
SPARCstation 10	<b>UG10-UEC2-9E-256AC</b> Chassis upgrade to Ultra 2 Model 2300 with Creator graphics, 256MB, 4.2GB fast internal disk	\$32,650	A*
SPARCstation 20	<b>UG20-UEC2-9E-000AC</b> Chassis upgrade to Ultra 2 Model 2300 with Creator graphics, 4.2GB internal disk, no memory	\$30,500	A*
Ultra 1 - 140 or 170	<b>UA11-UEC2-9F-000NN</b> Chassis upgrade to Ultra 2 Model 2300 with Creator graphics, no memory, no disk	\$29,300	A*
<b>CREATOR3D UPGRADES</b>			
SPARCstation 10	<b>UG10-UEC2-9F-256AC</b> Chassis upgrade to Ultra 2 Model 2300 with Creator3D graphics, 256MB, 4.2GB fast internal disk	\$33,650	A*
SPARCstation 20	<b>UG20-UEC2-9F-001AC</b> Chassis upgrade to Ultra 2 Model 2300 with Creator3D graphics, 1.2GB, 4.2GB internal disk	\$49,300	A*
<b>CHASSIS UPGRADE</b>			
SPARCstation 20ZX, Ultra 1 - 170E, Ultra Enterprise 1	<b>UA12-UEC2-9N-000NN</b> Chassis upgrade to Ultra 2 Model 2300 or Ultra Enterprise 2 Model 2300, no frame buffer, no memory, no disk	\$26,300	A*

**NOTES:** All Ultra 2 Model 2300 configurations require Solaris 2.5.1 or later Solaris 2.x release.

- The Ultra 2 systems have a wide SCSI connector on the back panel (68-pin). If narrow SCSI devices are to be connected, a conversion cable (50-68 pin) is needed (X903A or X904A). See Accessories section.

- All systems orders that include a monitor must also include a Country Kit; refer to the "Country Kits" section in the End User Price Book.

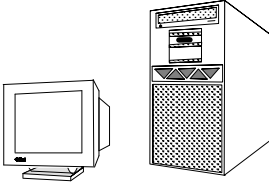
- Sun Ultra 2 systems require 4 identical SIMMs in 4 memory banks.

- Type 4 keyboard is not supported.

- Order additional memory, internal or external storage options as separate line items.

\* Maximum discount may apply.

## Ultra 30 Workstations

 <p><b>Ultra 30</b></p>		
	Model 250	Model 300
<b>Performance</b>		
Architecture	UltraSPARC-II	UltraSPARC-II
Clock rate	248 MHz	296 MHz
Cache on-chip	32KB	32KB
Cache external	1MB	2MB
No. of Processors	1	1
<b>Main Memory</b>	128MB - 2GB	
Memory type	ECC	
Number of slots	20	
DRAM speed	60ns	
Bus width	288 bits	
SIMM sizes	32, 64, 128MB	
<b>Disk Capacity</b>		
Maximum internal	2 Internal, up to 18.2GB	
Maximum total	109.2GB	
<b>I/O Architecture</b>		
Ultra SCSI	40MB/sec. Ultra SCSI (SCSI-3)	
Graphics	2 UPA graphics slots support Creator/Creator 3D	
Serial ports	2 RS-232C/RS423 DB25	
Parallel ports	Centronics compatible (DB25)	
PCI I/O bus	4 full-size PCI slots (v2.1): 3 @ 33MHz; 1 @ 33/66 MHz	
<b>Graphics</b>	Creator, Creator3D	
<b>Backup/Distribution</b>		
Floppy	- Optional 3.5" floppy	
CD-ROM	- SunCD 644MB, SunCD 12x	
Internal	- Optional 12-24GB DDS2 4mm, 14GB 8mm, up to two 2.1GB, 4.2GB, or 9.1GB disk	
External	- 2.1GB-9.2GB SPARCstorage Unipack 8.4GB-54.6GB SPARCstorage Multipack 2.5GB QIC 20GB-40GB 8mm 4GB-8GB 4mm DDS2 12GB-24GB 4mm DDS3 72GB-144GB 4mm DDS3 autoloader 140GB SPARCstorage Library Model 8/140 20GB-40GB DLT4000 35-70GB DLT7000	
<b>Networking Ports</b>	TP Ethernet 100/10BASE-T or MII port	
<b>Solaris License</b>	Solaris 2.5.1	

### *Model 250: One 250 MHz Ultra SPARC-II, 1MB E-cache*

Part Number	Description	List Price	Discount Category
<b>CREATOR</b>			
A16-UDB1-1G-128AC	Ultra 30 Model 250 w/ 20" color monitor, Creator graphics, 128MB, 4GB UltraSCSI disk	\$16,495	A
<b>CREATOR3D</b>			
A16-UDB1-1H-128AC	Ultra 30 Model 250 w/ 20" color monitor, Creator3D graphics, 128MB, 4GB UltraSCSI disk	\$17,495	A
A16-UDB1-7H-128AC	Ultra 30 Model 250 w/ 24" wide screen color monitor, Creator3D graphics, 128MB, 4GB UltraSCSI disk	\$19,395	A

### *Model 300: One 300 MHz / 2MB Ultra SPARC-II*

Part Number	Description	List Price	Discount Category
<b>CREATOR</b>			
A16-UEC1-1G-128AC	Ultra 30 Model 300 w/ 20" color monitor, Creator graphics, 128MB, 4GB UltraSCSI disk	\$21,495	A
A16-UEC1-1G-512AC	Ultra 30 Model 300 w/ 20" color monitor, Creator graphics, 512MB, 4GB UltraSCSI disk	\$31,495	A
<b>CREATOR3D</b>			
A16-UEC1-1H-128AC	Ultra 30 Model 300 w/ 20" color monitor, Creator3D graphics, 128MB, 4GB UltraSCSI disk	\$22,495	A
A16-UEC1-1H-512AC	Ultra 30 Model 300 w/ 20" color monitor, Creator3D graphics, 512MB, 4GB UltraSCSI disk	\$32,495	A
A16-UEC1-7H-128AC	Ultra 30 Model 300 w/ 24" wide screen color monitor, Creator3D graphics, 128MB, 4GB UltraSCSI disk	\$24,395	A

**NOTES:** Ultra 30 workstation configurations require Solaris 2.5.1 hardware: 4/97 or greater.

- The Ultra 30 systems are equipped with FastEthernet (100BaseT)/10BaseT via twisted pair. If connecting to other media with an external transceiver, it will need to connect to the MII connector.

- The Ultra 30 systems have a wide SCSI connector on the back panel (68-pin). If narrow SCSI devices are to be connected, a conversion cable (50-68 pin) is needed (X903A or X904A). See Accessories section.

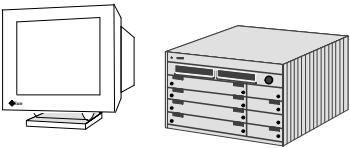
*Upgrades on next page.*

## Ultra 30 Workstations (Upgrades)

From	Part Number and Description	List Price	Discount Category
<b>Model 250, CREATOR</b>			
UltraSPARC A12 or A14	<b>UG14-6UDB19G-000NN</b> Chassis upgrade to Ultra 30 Model 250, Creator, Solaris license no memory, no disk	\$9,495	A
UltraSPARC, SPARCstation 20	<b>UG14-6UDB19G-000AC</b> Chassis upgrade to Ultra 30 Model 250, Creator, Solaris license, 4GB disk, no memory	\$10,495	A
UltraSPARC, SPARCstation 5, 10, or 20	<b>UG14-6UDB19G-128AC</b> Chassis upgrade to Ultra 30 Model 250, Creator, Solaris license, 4GB disk, 128MB memory	\$12,495	A
Any SPARCstation	<b>UGFS-6UDB11G-128AC</b> Full system upgrade to Ultra 30 Model 250, 20" color monitor, Creator, Solaris license, 4GB disk, 128MB memory	\$13,495	A
<b>Model 300, CREATOR</b>			
UltraSPARC A12 or A14	<b>UG14-6UEC19G-000NN</b> Chassis upgrade to Ultra 30 Model 300, Creator, Solaris license no memory, no disk	\$13,495	A
UltraSPARC, SPARCstation 20	<b>UG14-6UEC19G-000AC</b> Chassis upgrade to Ultra 30 Model 300, Creator, Solaris license, 4GB disk, no memory	\$14,495	A
UltraSPARC, SPARCstation 5, 10, or 20	<b>UG14-6UEC19G-128AC</b> Chassis upgrade to Ultra 30 Model 300, Creator, Solaris license, 4GB disk, 128MB memory	\$16,495	A
Any SPARCstation	<b>UGFS-6UEC11G-128AC</b> Full system upgrade to Ultra 30 Model 300, 20" color monitor, Creator, Solaris license, 4GB disk, 128MB memory	\$17,495	A
<b>Model 250, CREATOR3D</b>			
UltraSPARC A12 or A14	<b>UG14-6UDB19H-000NN</b> Chassis upgrade to Ultra 30 Model 250, Creator3D, Solaris license no memory, no disk	\$10,495	A
UltraSPARC, SPARCstation 20	<b>UG14-6UDB19H-000AC</b> Chassis upgrade to Ultra 30 Model 250, Creator3D, Solaris license, 4GB disk, no memory	\$11,495	A
Any SPARCstation	<b>UGFS-6UDB17H-128AC</b> Full system upgrade to Ultra 30 Model 250, 24" color monitor, Creator3D, Solaris license, 4GB disk, 128MB memory	\$16,395	A
<b>Model 300, CREATOR3D</b>			
UltraSPARC A12 or A14	<b>UG14-6UEC19H-000NN</b> Chassis upgrade to Ultra 30 Model 300, Creator3D, Solaris license no memory, no disk	\$14,495	A
UltraSPARC, SPARCstation 20	<b>UG14-6UEC19H-000AC</b> Chassis upgrade to Ultra 30 Model 300, Creator3D, Solaris license, 4GB disk, no memory	\$15,495	A
UltraSPARC, SPARCstation 5, 10, or 20	<b>UG14-6UEC19H-512AC</b> Chassis upgrade to Ultra 30 Model 300, Creator3D, Solaris license, 4GB disk, 512MB memory	\$27,495	A
Any SPARCstation	<b>UGFS-6UEC11H-128AC</b> Full system upgrade to Ultra 30 Model 300, 20" color monitor, Creator3D, Solaris license, 4GB disk, 128MB memory	\$18,495	A
Any SPARCstation	<b>UGFS-6UEC17H-128AC</b> Full system upgrade to Ultra 30 Model 300, 24" color monitor, Creator3D, Solaris license, 4GB disk, 128MB memory	\$20,395	A
<b>MODULE UPGRADE</b>			
Ultra 30 Model 250, 250MHz	<b>UG-A16-M250-M300</b> Module upgrade from 250MHz to 300MHz	\$5,995	A



## Ultra 4000 Creator3D Workstation

 <b>Ultra 4000 Creator3D</b>			
167 MHz/ 250 MHz			
	1 CPU	6 CPUs	12 CPUs
<b>Performance</b>			
SPECint95	6.60/9.74	N/A	N/A
SPECbase_int95	59/84	336/505	660/1007
SPECfp	9.37/11.70	N/A	N/A
95SPECbase_fp95	83/104	469/586	887/1073
<b>Performance</b>			
Architecture	UltraSPARC		
Clock rate	167 or 250 MHz		
Cache on-chip	16KB I-cache, 16KB D-cache		
Cache external	1MB		
No. of Processors	1-14		
<b>Main Memory</b>	256MB - 14GB		
Memory type	ECC		
DRAM speed	60ns		
Bus width	576 bits		
<b>Disk Capacity</b>			
Maximum internal	16.8GB		
Maximum total	Over 4TB		
<b>I/O Architecture</b>			
SBus slots	2-21		
Graphics (UPA Slots)	1-4		
Serial ports	2 RS-232/RS-423 (2 DB25)		
Parallel ports	1 Centronics compatible (DB25)		
<b>Graphics</b>			
Graphics Proc.	Creator3D (up to 4 frame buffers) standard		
Maximum	Up to 4 Creator3D graphics monitors		
Options	Creator, TGX, TGX+		
<b>Network Ports</b>			
AUI Ethernet	Yes (requires MII adapter)		
Twisted-pair ISDN- FDDI and ATM	Yes (10/100 Mbps) Optional		
<b>Solaris License</b>	Solaris 2.5.1 or later		

Part Number	Description	List Price	Discount Category
A18-1F-256AC	Ultra 4000 Creator3D workstation with 20" color monitor, Creator3D frame buffer, Graphics I/O board, 256MB memory, CPU/Memory board, 4.2GB disk board, SunCD 4, 2 Power/Cooling modules, Country Kit, and Solaris workstation license. <b>NOTE:</b> UltraSPARC CPUs are not included in workstation configuration. Must be ordered separately.	\$71,500	A
A18-1F-001AC	Ultra 4000 Creator3D workstation with 1 GB memory, CPU/Memory board, Graphics I/O board, Creator3D frame buffer, 20" color monitor, 4.2GB disk board, SunCD 4, 2 Power/Cooling modules, Country Kit, and Solaris workstation license. <b>NOTE:</b> UltraSPARC CPUs are not included in workstation configuration. Must be ordered separately.	\$115,250	A
<b>ULTRASPARC MODULES - Minimum Of 1 Per System.</b>			
X2510A	UltraSPARC module, 167 MHz, 1MB External Cache.	\$13,000	A
(X)2530A	UltraSPARC module, 250MHz, 1MB External Cache.	\$13,000	A

- Add "X" to order as a standalone option for existing systems.

**NOTES:** Ultra 4000 Creator3D workstation configurations require Solaris 2.5.1 or later Solaris 2.x release.

- The Ultra 4000 Creator3D workstation is constructed with the same components as the Enterprise 4000 server; therefore, components are interchangeable.
- Order a Solaris Internet Access PlusPack at no charge with initial workstation order.
- All systems orders that include a monitor must also include a Country Kit; refer to the "Country Kits" section in the End User Price Book

*Upgrades on next page.*

## Ultra 4000 Creator3D Workstation (Upgrades)

### Step 1(required)

Select upgrade based on "Upgrade From" system



### Step 2 (required)

**Processor Module**  
Maximum of 2 CPU/memory boards  
Minimum of 1 per system upgrade



### Step 3

**Memory**  
Minimum of 1 per system.  
Maximum of 14 per system.  
Maximum of 2 per CPU/memory board  
Minimum requirement may be satisfied with board upgrades in Step 2.



### Step 4

Go to Step 4, Enterprise 3000/4000 ordering flow chart for more options

From	Part Number and Description	List Price	Discount Category
SPARCstation 10, SPARCstation 20, UltraSPARC	<b>UGA14-A18-9F-256AC</b> Chassis upgrade to Ultra 4000 Creator3D workstation with Creator3D frame buffer, Graphics I/O board, 256MB memory, CPU/Memory board, 4.2GB disk, SunCD 4, 2 Power/Cooling modules, Country Kit, and Solaris workstation license, no CPU.	\$60,200	A

PROCESSOR MODULE			
SuperSPARC	<b>UG-M2530</b> 250MHz processor module w/ 1MB external cache	\$10,500	A
SuperSPARC	<b>UG-M2550</b> 250MHz processor module w/ 4MB external cache	\$13,500	A

- Mixing of 167-MHz and 250-MHz modules in a single system is not supported.
- Total of 8 slots available for CPU/memory, I/O & disk boards.

MEMORY			
7022A	256MB (8 X32MB SIMMs)	\$4,750	A
7023A	1GB (8 X128MB SIMMs)	\$23,200	A

### NOTES:

- The Ultra 4000 Creator3D workstation is constructed with the same components as the Enterprise 4000 server; therefore, components are interchangeable.
- Upgrades require Solaris 2.5.1 or later Solaris 2.x release.